Custom Ptfe Beaker 350Ml High Purity Laboratory Vessel With Optional Lid For Hot Plate Heating Applications

Item Number: PL-CP074

Introduction

Premium 350ml PTFE beaker designed for aggressive chemical processing and high-temperature laboratory applications. Fully customizable with lids and hot plate compatibility up to 200 degrees Celsius, ensuring superior chemical inertness and long-term durability in critical research environments.

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Application	Description	Key Benefit
Trace Metal Analysis	Preparation of samples using concentrated nitric or hydrofluoric acids.	Zero leaching ensures sample purity and detection accuracy.
Semiconductor Etching	Handling and mixing of corrosive etchant solutions for wafer processing.	Material integrity prevents chemical contamination of sensitive components.
Pharmaceutical Synthesis	Reaction vessel for complex organic compounds and aggressive reagents.	Broad chemical compatibility supports diverse synthetic pathways.
Acid Digestion	High-temperature breakdown of environmental or geological samples.	Thermal resistance allows for efficient digestion on hot plates.
Battery Research	Testing of electrolyte components and corrosive chemical mixtures.	Robustness against lithium-ion battery chemistry and heat.
Cryogenic Storage	Safe containment of materials at extremely low temperatures.	Maintains flexibility and strength at sub-zero ranges.
High-Purity Storage	Long-term containment of ultrapure reagents and reference standards.	Prevents degradation of high-value chemical stocks.

Feature	Specification	Notes
Product Item Number	PL-CP074	Use for procurement and ordering
Base Capacity	350ml	Fully customizable upon request
Primary Material	Virgin PTFE (Polytetrafluoroethylene)	High-purity, laboratory-grade fluoropolymer
Continuous Use Temperature	Up to 260°C (500°F)	Ideal for high-heat laboratory processes
Hot Plate Temperature Resistance	Recommended up to 200°C	Optimized for stable thermal transfer
Flammability Rating	UL94 V0	Non-flammable and safe for high-heat use
Chemical Compatibility	pH 0-14	Resistant to all acids, bases, and solvents
Surface Finish	High-precision Machined	Minimized porosity for trace analysis
Customization Options	Dimensions, Lids, Bottom Thickness	Bespoke fabrication to customer drawing
Lid Configuration	Optional / Custom-Fit	Friction fit or screw-top variants available